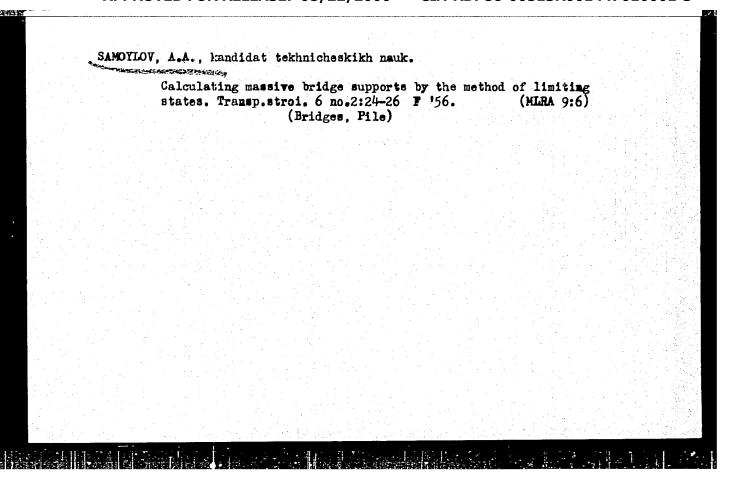


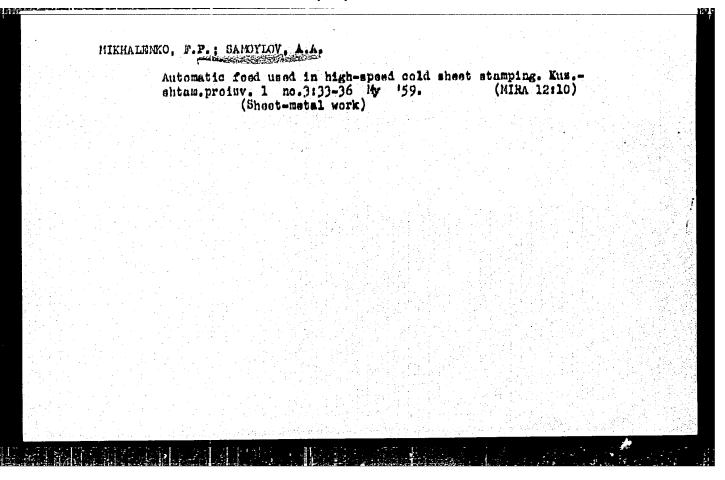
SAMOYLOV, A. A.

"Author Reference of Dissertations on 'The Calculation of the Endurance Limit of Large Abutments of Bridges,' Presented in Partial Fulfillment of the Degree of Candidates of Technical Sciences." Cand Tech Sci, Leningrad Order of Lenin Inst of Railroad Transport Engineers imeni Academician V. N. Obraztsov, Leningrad, 1953. (KL, No 16, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

•	Statistical	L control methods.	Izm. tekh.	no.6:65 N-D	56. (HIRA	10:1)
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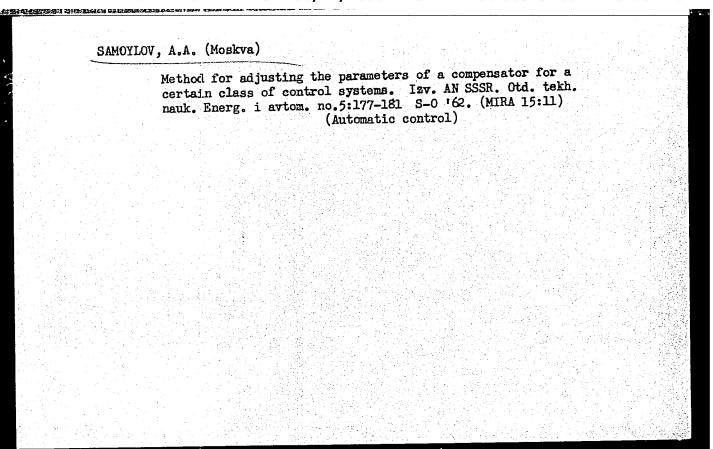
BOGATYREV, A.I., inzh.; Prinimali uchastiye: SAMOYLOV, A.A., kand.tekhn.nauk; KUGEL'KO, B.I., inzh.

Experimental study of the torsion of two-sided reinforced concrete rods. Sbor. trud. LIIZHT no.174:263-272 '60. (MIRA 15:11) (Concrete products—Testing) (Torsion)

FILIN, A.P., doktor tekhn.nauk, prof.; SAMOYLOV, A.A., kand.tekhn.nauk

Experimental study of models of reinforced concrete cupolas or shells. Sbor. trud. LIIZHT no.174,1273-299 '60. (MIRA 15:11)

(Domes) (Roofs, Shell)



KAPLAN, V.S.; SAMOYLOV, A.A.; TSIBAROV, Yu.A.

Testing models of supports for temporary arches in assembly chambers of subway stations without side platforms. Storetrud. LIIZHT no.192:279-290 162. (MTRA 16:9)

SAMOYLOV, A.A. (Moskva) Synthesis of a system for stabilizing the tightening of a hot strip in the finishing group of a thin plate mill. Avtom. i telem. 24 no. (MIRA 17:1) 12:1692-1701 D '63.

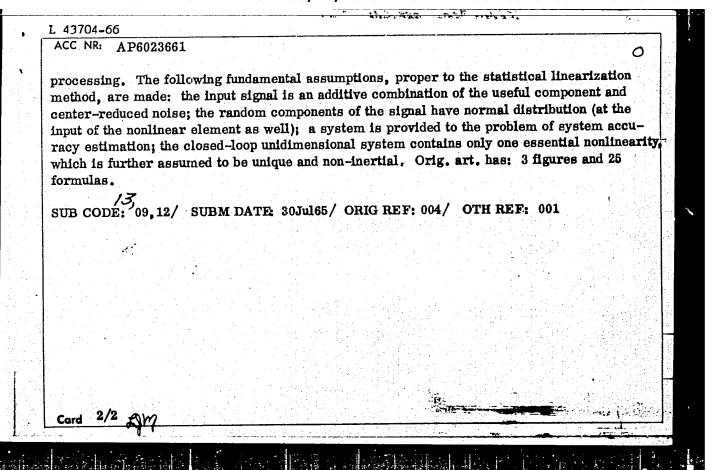
KUL'GAVIY, Ya.K.; SAMDYLOV, A.A.

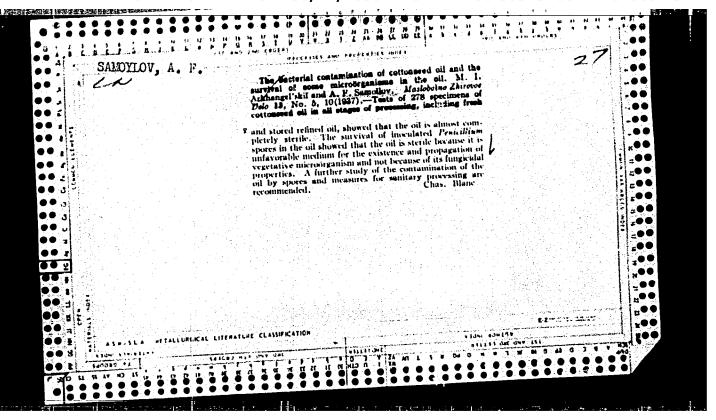
Making and testing a model of mesh-reinforced concrete shells of double curvature. Sbor. trud. LIIZHT no.229:147-159 '64.. (MIRA 18:8)

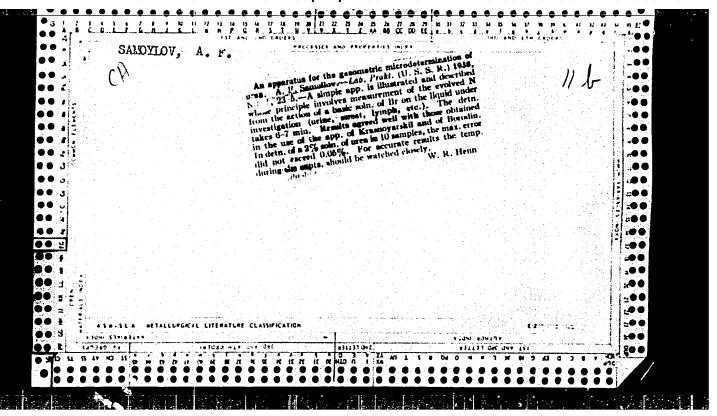
"APPROVED FOR RELEASE: 08/22/2000

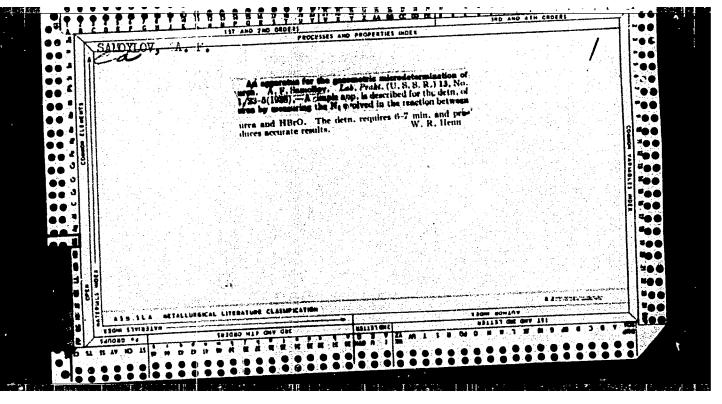
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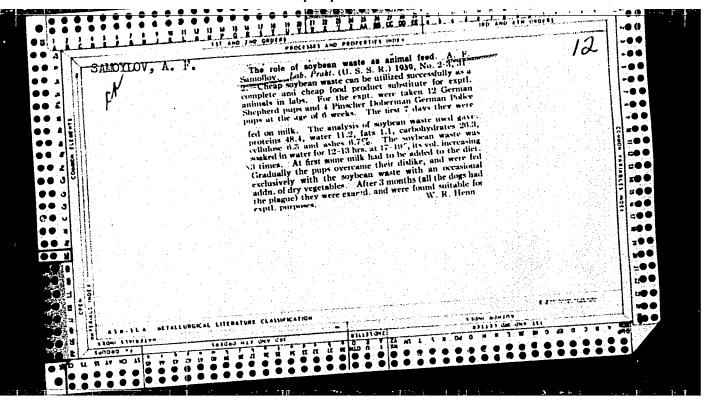
SOURCE CODE: UR/0103/66/000/004/0042/0047 I 43704-66 EWI(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l)-ACC NR: AP6023661 AUTHOR: Pankov, R. A. (Moscow); Samoylov, A. A. (Moscow) TITLE: A method of the approximate representation of nonlinearities and the application of ORG: none statistical linearization to the analysis of closed-loop automatic systems SOURCE: Avtomatika i telemekhanika, no. 4, 1966, 42-47 TOPIC TAGS: control statistics, linearization method, nonlinear automatic control system, dynamic system, algorithm, computer application ABSTRACT: The authors investigate a method of approximate analysis of systems with varithe parameters and nonstationary input signals. The statistical testing method is shown to be capable of providing an approximate analysis of a closed automatic system containing a unique and essentially nonlinear element, based on a Fourier series approximation of the characteristics of this nonlinear element. At the same time, by using a mathematical description of essential nonlinearities based on a statistical linearization approach, an algorithm is devised for the computation of the statistical characteristics of the output variables with the normally employed statistical testing stage omitted. Such an algorithm lends itself readily to computer UDC: 62-501; 519:25 Card 1/2

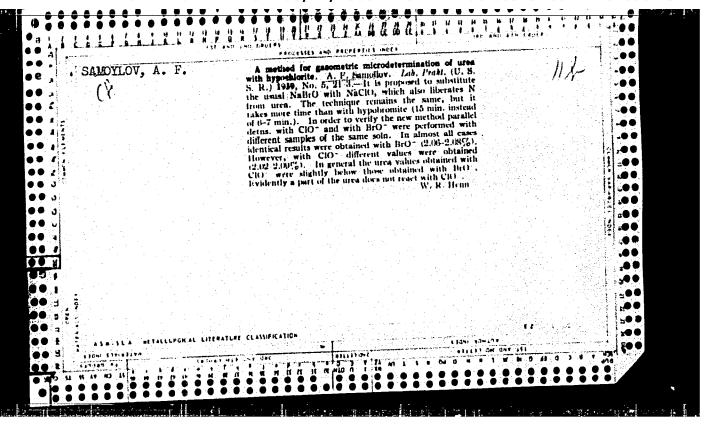




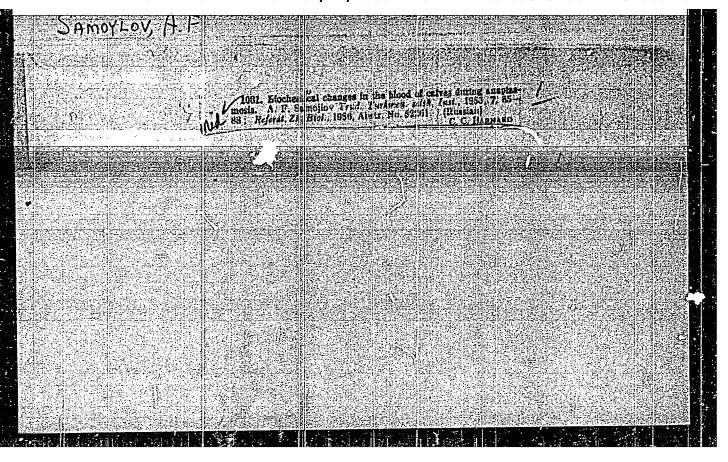


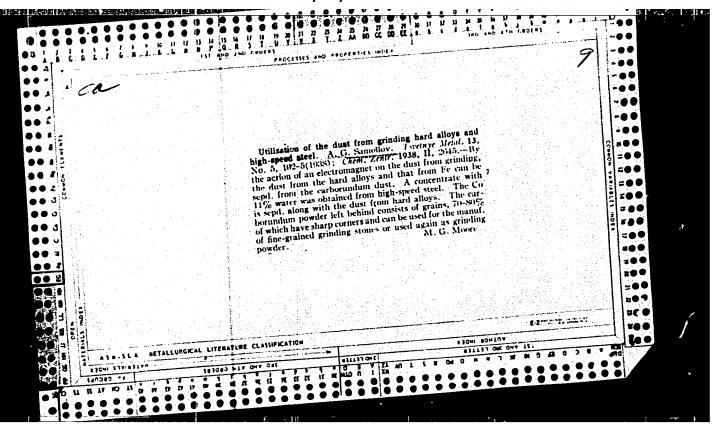






"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R001447010001-3





SOV /137-58-12-24367

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 12, p 61 (USSR)

AUTHOR: Samoylov, A. G.

TITLE: Some Regularities of the Process of Powder Pressing That May be

Applied in the Production of Hard Alloys (Nekotoryye zakonomernosti protsessa pressovaniya poroshkov, primenyayemykh v proizvodstve

tverdykh splavov)

PERIODICAL: V sb.: Poroshkovaya metallurgiya. Nr 4. Moscow, 1956, pp 22-31

ABSTRACT: The ratio to height of sample and briquetting pressure, Pb, of the

pressure on the bottom face of the sample, elastic strain, and the force of friction on ejection from the die are checked experimentally in the briquetting of specimens of hard-alloy powder mixtures 1.3 mm in diam and up to 25-30 mm in height. The difference in the unit pressures, ΔP , between the upper and the lower ends of the sample is greater than the ejection pressure, P_e . $\Delta P = P_e + KP_b$, where K is a constant depending upon the type of powder being pressed. P_e , reduced to unit side surface, is proportional to P_b . The elastic

aftereffect grows with the briquetting pressure.

I. B.

Card 1/1

REPUBLICATION CONTACT ENGINEERING		
SAMOYLO	N. A.G. (Moskva) Regularities in in the production no.2:159-162 F	the compression process of powder mixtures used n of hard alloys. Izv.AN SSSR.Otd.tekh.nauk 157. (MLRA 10:5) (Powder metallurgy)

	sov/89-5-4-4/24
	Kalashnikov, V. V., Titova, V. V., Sergeyev, G. Ya.,
	Kalashnikov, V. V., Titova, V. V.,
AUTHORS:	Samoylov, A. G.
	Construction (War-va)
TITLE:	On Uranium-Molybdenum Alloys in Reactor Construction (Survey) On Uranium-Molybdenum Alloys in Reactor Construction (Survey) (Uran-molibdenovyye splavy v reaktorostroyenii. Obzor)
TII IID •	
	1058 Vol 5. Nr 4. PP 421-421
PERIODICAL:	(Uran-mollbuendvy) Atomnaya energiya, 1958, Vol 5, Nr 4, pp 421-431 (USSR)
	callering data on uranium-molybdenum navo
ABSTRACT:	The following data on urantum publications. the basis of mainly foreign publications. the basis of mainly foreign publications. (No content
	the basis of mainly foreign publications. the basis of mainly foreign publications. 1) Phase diagrams and the general properties of alloys (Mo content
	the basis of mainly the general properties of alloys (Mo content 1) Phase diagrams and the general properties of some U-Mo alloys (Mo content 2) The mechanical properties of some U-Mo alloys (Mo content
	2) The mechanical proposed 2,2 to 12%). 2,2 to 12%). 3) Measurement stability of U-Mo alloys after cyclical treatment (heating - cooling). Here especially the papers by ment (heating - cooling). Here especially the papers by
	ment (heating - cooling). S. T. Konobeyevskiy are mentioned. S. T. Konobeyevskiy and corrosion-stability of U-Mo alloys
	4) Radiation-scale
	in water. The following may be said about the use of U-Mo alloys as
•	The following may be salt nuclear fuel: nuclear fuel: a) compared to pure uranium, U-Mo alloys have a higher mechan a) compared to pure uranium, u-Mo alloys have a higher mechan better corrosion-resisting properties at
2 -1 1/2	a) compared to pure uranium, U-Mo alloys have a magnitude at cal strength, better corrosion-resisting properties at
Card 1/2	
	그는 그리고 하는 말이 되고 있는 항보다고 말할 수 있을 때 하는 것 같아요?

On Uranium-Molybdenum Alloys in Reactor Construction (Survey)

higher temperatures, and high stability of measurements also after cyclical thermal treatment.

- b) The alloy is especially easily worked into rods and tubes, but less well into plates.
- c) The application of \hat{U} -Mo alloys forcibly leads to an increase of the degree of enrichment of \hat{U}^2 .
- d) U-Mo alloys can probably be used with good success for fast reactors.

There are 7 figures, 9 tables, and 15 references, 4 of which are Soviet.

SUBMITTED: June 21, 1958

Card 2/2

sov/89-6-3-3/29 11(6), 21(1) Samoylov, A. G., Volkov, V. S. AUTHORS: Fuel Elements for Nuclear Reactors (Teplovydelyayushchiye elementy yadernykh reaktorov) TITLE: Atomnaya energiya, 1959, Vol 6, Nr 3, pp 261 - 276 (USSR) PERIODICAL: This article is a survey which has been compiled on the basis of the western Geneva reports for 1958. The following reports ABSTRACT: were used in the compilation of information in the individual 1) Design of fuel elements: Nr 48,74,209,263,264,792,1038,1679, fields: 1782,1845,2380,2427. 2) Nuclear fuels: Nr 191,421,447,785,787,791,792,1017,1019, 1038,1776,1782,1801,1845,1885,1925,2372,2379. 3) Structural materials for fuel elements: Nr 44,312,314,414, 450,455,1005,1017,1054,1925,2419. 4) Fuel element production technology: Nr 240,788,1555. 5) a ten page table contains a list of fuel elements. In the compilation of this table the following articles were used: Nr 74,75,135,136,208,209,210,211,246,259,263,264,312,313,314, 414,416,421,423,447,450,455,609,610,785,787,791,792,1017, Card 1/2

Fuel Elements for Nuclear Reactors

SOV/89-6-3-3/29

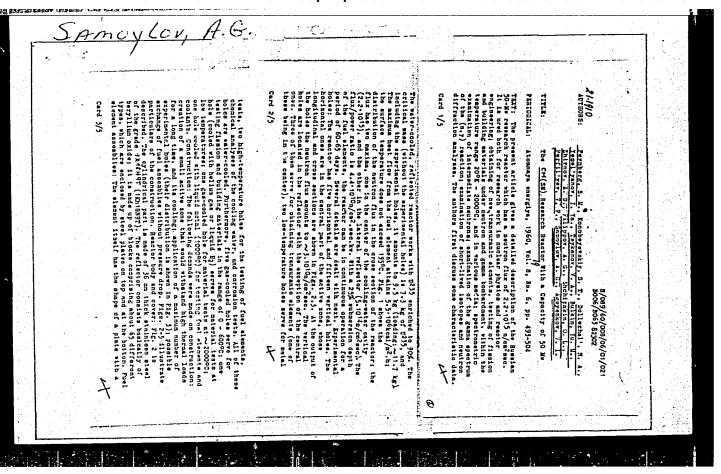
1038,1134,1319,1464,1523,1555,1584,1630,1673,1679,1782,1801, 1850,1885,2274,2372,2380,2419,2427,2462.

There is 1 table.

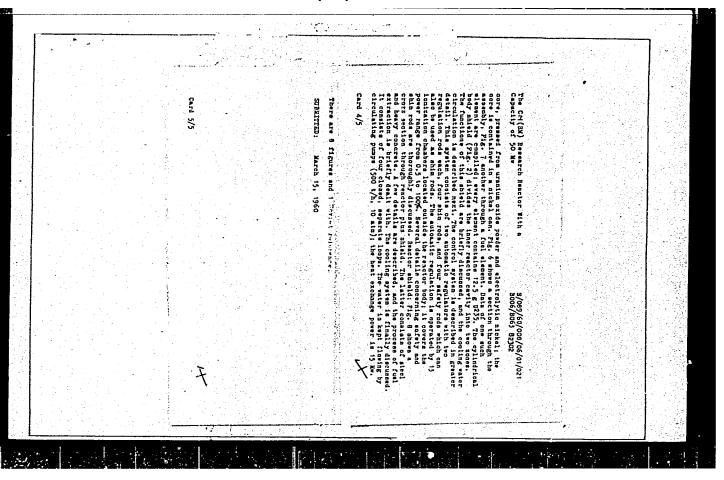
SUBMITTED:

December 25, 1958

Card 2/2



"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R001447010001-3



EWT(m)/ETC(f)/EPF(n)-2/ENG(m)/EMP(t) ES/WN L 25666-66 EWT(m)/ ACC NR. AM6012204 Monograph Samoylov, Andrey Grigor yevich; Kashtanov, Andrey Ivanovich; Volkov, Vasiliy Semenovich Nuclear reactor dispersion fuel elements (Dispersionnyye teplovydelyayushchiye elementy yadernykh reaktorov) Moscow, Atomizdat, 1965. 342 p. illus., biblio, 1650 copies printed. TOPIC TAGS: nuclear reactor, reactor fuel element, dispersion fuel element : PURPOSE AND COVERAGE: The book is intended for physicists and reactor engineers specializing in the design of reactor fuel elements It can also be useful for students of higher technical schools. The design of dispersion fuel elements for nuclear reactors is reviewed in detail and extensive references cited. The authors express their gratitude to Andrey Anatoliyevich Bochvar, member of the Academy of Sciences USSR, for his advice. TABLE OF CONTENTS: Foreword -- 3 1. Conception of dispersion-type fuel elements, their use and design-5 UDC 621.039.54:541.18.053./.054

2. Materials	for fuel eleme	nts 1	8		
3. Production	of dispersion	i-type fue	l elements	103	
4. Mechanical	and physical	propertie	s of dispers	ion compound	ls - 204
	resistance of			是"自身"的"最后"是"是一个"。	
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1. Stalinskiy metallurgicheskiy zavod. (Rolling (Metalwork))	Changing the system of predl.vnedr.v proizv.	rolling hexagonal sections. no.5:26-27 '60.	Sbor.rats. (MIRA 14:8)
	l. Stalinskiy metallur (Ro	gicheskiy zavod. lling (Metalwork))	
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SOV/126-7-1-11/28

AUTHORS: Rovinskiy, B.M., Samoylov, A.I. and Rovenskiy, G.M.

TITLE: Crystal Lattice Distortions in Nickel-Based Alloys at Temperatures of 20-500°C (Iskazheniya kristallicheskoy reshetki v splavakh na nikelevoy osnove pri temperaturakh 20-500°)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1959, Vol 7, Nr 1, pp 79-90 (USSR)

ABSTRACT: The authors used samples of pure electrolytic nickel and nickel alloyed with aluminium, chromium, cobalt and iron. The composition of these alloys is given in Table 1. The alloys were prepared in an induction furnace filled with an inert gas. The melts were subjected to homogenising annealing and were hot-forged. After forging they were again annealed at 900°C and then cold-forged in three mutually perpendicular directions in order to decrease the dimensions of crystal grains. After cutting into planeparallel plates, the samples were again annealed at temperatures gradually increasing to 550°C (50°C higher than the temperatures later employed in X-ray studies). The crystal Card 1/3 lattice distortions were studied by X-ray reflection at

SOV/126-7-1-11/28

Crystal Lattice Distortions in Nickel-Based Alloys at Temperatures of 20-500°C

temperatures of 20, 200, 350 and 500°C. A KROS-1 camera with an exposure standard (Fig.1) was used. integral intensities of reflections from (331) and (420) planes were found using a microphotometer MF-4. lattice constant of nickel and nickel alloys in the region 20-500°C was determined to within ± 0.001 %. The relative hardness of nickel and its alloys was also measured between 20 and 500°C (Fig.8). The results obtained are shown in graphs (Figs.2-11) and tables (2-4). On addition of up to 12.4 at. % of Al, 24.0 at. % of Cr, 10.4 at. % of Co and 6.7 at. % of Fe, the distortion of the nickel lattice was found to be proportional to the amount of the alloying element present. At room temperature the distortion is greatest on addition of aluminium, and least on addition of chromium. At 500°C the greatest distortion is still produced by aluminium, but the least distortion is obtained on addition of cobalt. The dependence of the characteristic temperature of alloys on the amounts of alloying elements It was found that the characteristic Card 2/3 is shown in Fig. 5.

SOV/126-7-1-11/28

Crystal Lattice Distortions in Nickel-Based Alloys at Temperatures of 20-500°C

temperature of alloys cannot be obtained by simple addition of the characteristic temperatures of their components. The state of the lattice at the absolute zero is discussed. It was found that the "zero" energy in alloys depends on the amount of the admixture and the nature of the alloying element. There are 11 figures, 4 tables and 12 references, of which 10 are Soviet, 1 English and 1 a translation from English into Russian.

ASSOCIATION: All-Union Scientific Research Institute for Aircraft Materials (Vsesoyuznyy nauchno-issledovatel'skiy institut aviatsionnykh materialov)

SUBMITTED: October 28, 1957

Card 3/3

CIA-RDP86-00513R001447010001-3 "APPROVED FOR RELEASE: 08/22/2000

S/119/63/000/001/009/016 D201/D308

AUTHOR:

Samoylov, A.I.

TITLE:

A measuring instrument with a scale varying accord-

ing to a given load

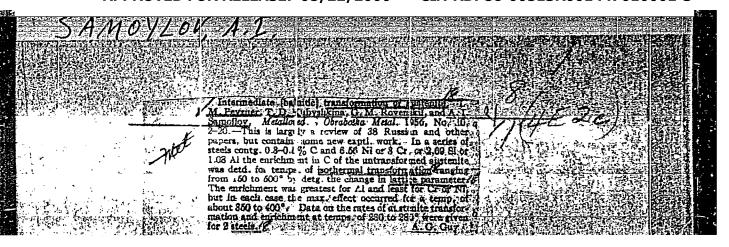
PERIODICAL:

Priborostroyeniye, no. 1, 1963, 20-21

The author considers the possibility of designing a dynamic indicating instrument having a scale which can be adjusted to obey a predetermined law. The principle of design can be applied to any instrument using mechanical opposing forces. In a dynamic instrument the frame current determines the law of change of the frame deflection angle if the specific torque is constant; a given rrame dericction angle it inc specific torque is constant; a given deflection angle being reached for certain fixed initial conditions. If these initial conditions can be varied according to a predetermined law (depending on the frame current); the scale of the instrument will follow this law as well. The described effect can be ment will follow this law as well. The described effect can be achieved by a system of cams and sectors constituting the pointer achieved by a system of cams and sectors constituting the pointer support. The method of determining the required performance is

Card 1/2

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ASTAPENKO, P.D., kand.geograficheskikh nauk; BURTSEV, A.I., kand.fizikomatematicheskikh nauk; GUROV, V.P., kand.fiziko-matematicheskikh
nauk; ZVERBV, A.S., kand.fiziko-matematicheskikh; nauk; ZUBYAN, G.D.,
doktor geograficheskikh nauk; MININA, L.S., kand.geograficheskikh nauk;
MOROZKIN, A.A., inzhener-meteorolog; RUPPERT, L.L., kand.geograficheskikh nauk; SERGEYEV, B.M., inzhener-meteorolog; SAMOVIOV...A.I.,
kand.fiziko-matematicheskikh nauk; TURKETTI, Z.L., kand.geograficheskikh nauk; CHERNOVA, V.F., starshiy nauchnyy sotrudnik; CHISTYAKOV,
A.D., kand.fiziko-matematicheskikh nauk; POGOSYAN, Kh.P., prof., red.;
YASNOGORODSKAYA, M.M., red.; BRAYNINA, M.P., tekhn.red.

[Synoptic study atlas] Uchebnyi sinopticheskii atlas. Leningrad, Gidrometeor. izd-vo. Pt.2. (Sost. P.D.Astapenko i dr.) 1957.

90 fold. maps (in portfolio) _____ [Practical recommendations and assignments for students using the "Synoptic study atlas" Metodicheskie rkomendatsii i zadaniia dlia studentov k "Uchebnomu sinopticheskomu atlasu," chast¹ 2. Sost. A.S.Zverev. 1957. 87 p.

(MIRA 11:3)

1. TSentral nyy institut prognozov (for Chernova) (Climatology--Charts, diagrams, etc.)

83544

S/112/59/000/015/064/068 A052/A002

6.9200

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, No. 15, p. 241, # 32657

AUTHOR:

Samoylov, A.I.

TITLE:

The Instantaneous Correlation Transformation and Separation of

Signals by Shape

PERIODICAL:

Uch. zap. Belorussk. in-ta inzh. zh.-d. transp., 1958, No. 3,

pp. 241-255

TEXT: The deficiency of existing correlators consisting in a too slow calculation of the correlation function is eliminated in a device calculating the instantaneous correlation transformation. By the instantaneous correlation transformation such correlation function is meant which is determined at a rate equal to the rate at which the initial data are supplied, that is 2F number/sec, where F is the width of the incoming signal spectrum. Such correlator can be built by using a charge storage tube. The investigated signal is recorded on the target of the tube on the greater part of its circumference a-b by a beam rotating anticlockwise. On the part of the circumference b-a- the beam changes Card 1/3

835hh 8/112/59/000/015/064/068 A052/A002

The Instantaneous Correlation Transformation and Separation of Signals by Shape

over to erasing the old record. The change-over frequency is somewhat different from the frequency of beam scanning during recording. Thus in the process of operation, the points a and b shift along the target (the distance between them being constant) with the differential frequency, securing thereby a continuous restoration of a record. After & ch rotation of the recording beam, it is switched over to reading at the point a (without changing the charge pattern of the target) which is performed with a by far greater speed than recording. This voltage is fed to one of the multiplier inputs. Simultaneously, with the switching-over of the beam to reading, the generator generating the signal, for which a correlation with an input action is determined, feeds a voltage to the 2nd input of the multiplier. At the 1-f filter output following the multiplier, the correlation function appears continuously, whereby the speed at which it appears is equal to the speed at which the incoming signal is supplied. The correlator of the described type can be used in a transmission system with a separation of signals by shape. In this system, independent specimens of a random fluctuation noise, with a duration T and spectrum width F, serve as signal, representing the information to be transmitted. The error probability in this system is determined

Card 2/3

835|11 8/112/59/000/015/064/068 A052/A002

The Instantaneous Correlation Transformation and Separation of Signals by Shape by the formula

$$P_{\text{er } \cdot \text{ pr }} \stackrel{\sim}{=} 1 - \left[\frac{1}{2} + \Phi\left(\sqrt{\frac{\text{ET}}{\text{m} + \text{k}}}\right) \right]^{n} \text{, where}$$

$$\Phi(x) = (2\pi)^{-\frac{1}{2}} \int_{0}^{x} \exp\left(-t^{2}/2\right) dt; \quad k = \frac{P_{n}}{P_{s}}$$

where P_n - noise power, P_s - signal power, n- number of signals used, m - number of overlapping signals. When telegraphing at a rate of 5 signs/sec and at a frequency band of 250 cycles there is an error in one letter per page of a book text even at k=1.

B.I.K

Translator's note: This is the full translation of the original Russian abstract.

Card 3/3

AUTHOR: Samoylov, A.I. SOV/106-58-4-1/16

TITLE:

Instantaneous Correlation Transformation

(Mgnovennoye korrelyatsionnoye preobrazovaniye)

PERIODICAL: Elektrosvyaz', 1958, Nr 4, pp 3 - 7 (USSR).

To describe the probability properties of communi-ABSTRACT: cation signals, knowledge of the correlation function is necessary. Theoretical determination of this function for practical cases is generally difficult and apparatus has been developed to give experimental determination of these functions. Existing apparatus, however, produces the correlation function relatively slowly and consequently many of its valuable properties cannot be utilised. The author shows that it is possible to obtain the correlation function as rapidly as the action of the original signal applied to the input. A function so obtained he terms the instantaneous correlation function. Apparatus which will produce the instantaneous correlation function is described.

Instantaneous correlation transformation makes it possible to separate out the noise and to use the correlation function as a new signal containing the information of the original signal. Every real signal has a finite spectrum and a finite duration Cardl/7 and by Kotel'nikov's theorem (Ref 1) such a signal can be

Instantaneous Correlation Transformation

SOV/106-58-4-1/16

presented as a series of discrete values, following one on the other at a spacing of 1/2F sec., where F is the frequency bandwidth of the signal. Thus, for exact restoration of the signal, it is necessary to transmit not less than 2F numbers per sec. Since the correlation function of a periodical process has the same spectrum as the original signal, it is necessary to obtain not less than 2F points per sec. to reproduce the correlation function at the same speed as the original signal process, i.e. the time required to obtain one point of the correlation function must not be greater than 1/2F sec. But from the classical theory, the time T required to obtain one point of the correlation function function is:

$$B_{\mathbf{T}}(\mathbf{z}) = \frac{1}{T} \int_{0}^{T} \xi(t) \xi(t + \mathbf{z}) dt.$$

To reduce the time, the limits of the integration are reduced m times and to keep the value of the integral unchanged, the integrand is multiplied by m:

Card2/7

Instantaneous Correlation Transformation

$$B_{T}(\tau) = \frac{1}{T_{0}} \begin{cases} \xi(mt) \xi(mt + \tau) & \text{mdt} = 0 \end{cases}$$

$$= \frac{1}{T/m} \int_{0}^{T/m} \xi(mt) \xi(mt + \tau) dt = \frac{1}{T} \int_{0}^{T} \xi(t) \xi(t + \tau) dt$$
 (1)

The second integral of (1) shows that apparatus can be developed which will determine one point of the correlation function over an interval of T at a time m times less than T. For this, it is necessary to multiply the argument of the correlated process by m, i.e. to write the process and then to read it at a speed m times greater, and the limits in expression (1) must be:

Card3/7

$$T/m = 1/2F ,$$

(2)

i.e. m = 2F (in the author.'s work, m was 20).

Instantaneous Correlation Transformation

SOV/106-58-4-1/16

Thus, the reading speed must be 2FT times greater than the writing speed. The apparatus, which the author names the 'correlator', has the properties shown in Figure 1. The input signal & (t) with a rate of 2F numbers per sec. is characterised by a frequency band F. The correlation function also with a rate of 2F numbers per second and the same frequency bandwidth F must be produced at the output, delayed only by a constant time C . Such a device can be constructed by using a charge storage tube such as described in Ref 2 and Ref 3. As it is not necessary to write the signal continuously, both the reading and the writing operations can be performed by a single beam. It is sufficient to fix its values at intervals of 1/2F secs. and then in the free intervals the same beam can be used for reading. An electrical commutator (switch) is used to switch the beam from writing to reading. The commutator also changes the tube potentials and switches in a local oscillator, the mutual correlation of which with the original signal we wish to obtain. The local generator gives an output sin m Ot and maintains its initial phase. Card4/7

Instantaneous Correlation Transformation

SOV/106-58-4-1/16

The block diagram of the correlator is given in Figure 2. After multiplication, the output is applied to a low-frequency filter which acts as an integrator, thus giving the instantaneous correlation transformatior. The processes occurring in the correlator are illustrated in Fig. 3. The original signal $\sin \Omega$ t is written on the target by the beam at point b by a circular anti-clockwise sweep. From point b to point a, the beam is switched to erase the stale writing. From point a, the beam is switched to reading and reads the writing to point b. If the frequency of the commutation is somewhat less than the sweep frequency of the beam, then the instant the beam is switched will occur at different points on the circle of the target. Thus, the signal writing will be renewed all the time. One discrete value will be added to end b and one discrete value at end a will be erased in each revolution. If the local generator is connected every time at point a and disconnected at point b, then the generated signal will automatically move relative to the fixed written signal by a value which is required for determination of the correlation function. Card 5/7

Instantaneous Correlation Transformation

SOV/106-58-4-1/16

Figure 3 shows the signal written on the target (upper sine wave), the read signal c and the generated signal d. The beam makes one complete rotation in a quarter of a period Δt . The three lower curves are on an expanded scale. After each rotation, the beam writes from one end for a quarter of a period Δt , and, from the other end, erases for a quarter of a period (the dotted line), and the remaining part of the writing (five periods) is read. This read signal (Curve c) is multiplied with the local signal (Curve d) in the multiplier and the signal obtained e is applied to the filter. The average value is obtained at the output of the filter.

It can be shown that the described circuit gives at the output a value of the integral:

$$\frac{1}{T/m} \int_{0}^{T/m} \sin m\Omega t \sin \Omega (mt + 2) dt,$$

Card6/7

Instantaneous Correlation Transformation

SOV/106-58-4-1/16

which is the instantaneous correlation transformation of the original signal $\sin\Omega t$. There are 3 figures and 3 references, 1 of which is Soviet, 1 German and 1 English.

SUBMITTED: June 17, 1957

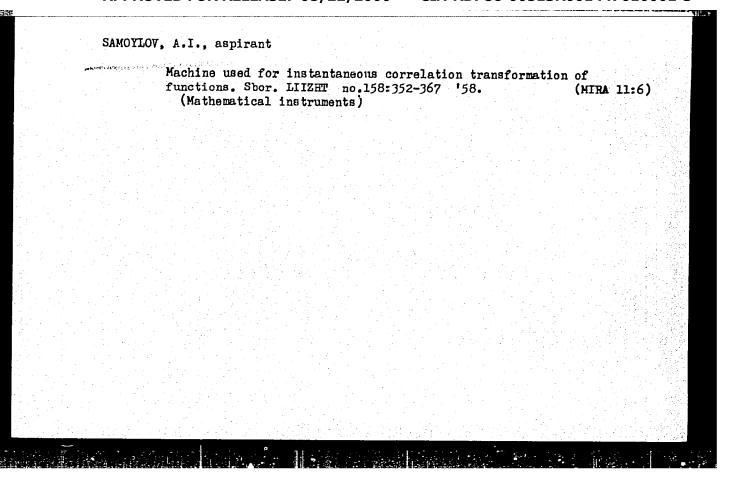
Card 7/7

1. Radio signals—Theory 2. Radio signals—Testing equipment

3. Radio signals---Properties 4. Mathematics--Applications

SOV/142-58-5-10/23 Samoylov, A.I. 9(9) AUTHOR: Separation of Signals by Their Form Isvestiya vysshikh uchebnykh savedeniy - radiotekhnika, 1958, Nr 5, TITLE: pp 584-588 (USSR) PERIODICAL The author discusses signals which differ by their form in the strict sense, A signal of a given power can still have different forms. Therefore, it is impossible to generalize about signals of ABSTRACT: all forms. One has to work with sufficient precision. The author gives an example of a communication transfer system with separation of signals by form. The formula for estimating the disturbance stability of the signal separating system by their forms 2td; k=Pa p (osh.pr) < n [1/2 - 4 () and P(osh.pr.) is the probability of the error reception (equation signals by form have proved to be optimum systems, concerning accidental samples of fluctuating noise and disturbance stability. In this respect, they appear Card 1/2

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SAMOYLOV, A.I.

Some properties of correlation functions. Trudy Ural. elektromekh. Inst. inzh. zhel. dor. transp. no.8:35-57 '63.

Generality of an ideal receiver according to Kotel'nikov and an ideal receiver according to Kharkevich. Ibid.:68-79

Comparison of the noiseproof features of a correlator and a storage device receiving pulse signals with fluctuation noise background. Ibid.:80-92 (MIRA 18:7)

FROLOV, Vladimir Alekseyevich; SAMOYLOV, A.I., otv. red.; RUSAKOVA, G.Ya., red.; ALEKSEYEV, A.G., tekhn. red.; FRATNINA, M.I., tekhn.red.

[Delving into the secrets of the weather]Vtorzhenie v tainy pogody. Leningrad, Gidrometeoizdat, 1962. 61 p.

(Meteorology)

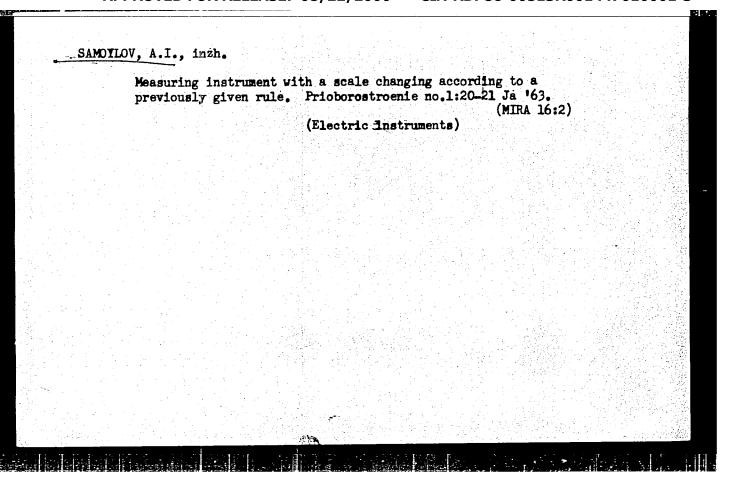
(Meteorology)

ASTAPENKO, P.D.; BEL'SKAYA, N.N.; BUSHUK, V.I.; BUSHUK, O.A.; GUROV, V.P.; ZUBYAN, G.D.; KATS, A.L.; MININA, L.S.; MOROZKIN, A.A.; PAVLOVSKAYA, A.A.; POGOSYAN, Kh.P.; SAMOYLOV, A.I.; SMIRNOV, P.I.; TARAKANOV, G.G.; TURKETTI, Z.L.; CHERNOVA, V.F.; CHISTYAKOV, A.D.

[Synoptic atlas for schools]Uchebnyi sinopticheskii atlas. Pod red. Kh.P.Pogosiana, 3, perer. i dop. izd. Leningrad, Gidrometecizdat, 1962. 217 gold.col.maps. (MIRA 16:3)

[Assignments for students]Zadaniia dlia uchashchikhsia. Pod red.Kh.P.Pogosiana. 138 p. [Methodological instructions and recommendations for teachers]Metodicheskie ukazaniia i rekomendatsii dlia prepodavatelei. Pod red. Kh.P.Pogosiana. 73 p.

(Meteorology-Charts, diagrams, etc.)



USPENSKIY, B.D., doktor fiz, -mat. nauk, prof.; BELOUSOV, S.L., Land.

fiz.-mat. nauk; PYATYGINA, K.V.; YUDIN, M.I.; MERTSALOV,
A.N., kand. fiz.-mat. nauk; DAVYDOVA, O.A.; KUPYANSKAYL;
A.P.; PETRICHENKO, I.A.; MORSKOT, G.I.; TOMASHEVICH, L.V.;
SAMOYLOV, A.I.; ORLOVA, Ye.I.; DZHORDZHIO, V.A.; PETRENKO,
N.V.; DUBOVYY, A.S.; ROMOV, A.I.; PETROSYANTS, M.A.; GIAZOVAYA,
A.T.; BEL'SKAYA, N.N.; CHISTYAKOV, A.D.;
GANDIN, L.S.; BURTSEV, A.I.; MERTSALOV, A.N.; BAGROVYY, N.A.;
BELOV, P.I'.; ZVEREV, A.S., retsenzent; SIDENKO, G.V., FERROR, C.V., P.I'.; ZVEREV, A.S., retsenzent; SIDENKO, G.V., FERROR, C.V., P.I'.; ZVEREV, A.S., retsenzent; SIDENKO, G.V., FERROR, C.V., P.I'.; ZVEREV, A.S., RAND. fiz.-mat. nauk, nauchn. red.;
SAGATOVSKIY, N.V., red.; BUGAYEV, V.A., doktor geogr. nauk,
prof., red.; ROGOVSKAYA, Ye.G., red.

[Manual on short-range weather forecasts] Rukovodstvo po kratkosrochnym prognozam pogody. Leningrad, Gidrometeoizdat. Pt.1. Izd.2., perer. i dop. 1964. 519 p. (MIRA 18:1)

1. Moscow. TSentral'nyy institut prognozov.

L 01811-66 EVT(d)/FSS-2/EEC-li/EED-2

ACCESSION NR: AP5020886

UR/0106/65/000/008/0039/0046 621.391.16:681.142.5

AUTHOR: Samoylov, A. I.

TITLE: Electronic correlator for separation of signals according to shape

SOURCE: Elektrosvyaz', no. 8, 1965, 39-46

TOPIC TAGS: signal correlation, signal detection, electronic signal, signal processing, signal shape

ABSTRACT: This is a continuation of the author's investigation (Elektrosvyaz', 1958, no. 4) of a continuous correlator which calculates the correlation function according to the approximate formula:

$$B(\tau) = \lim_{T \to \infty} \frac{1}{T} \int_{0}^{T} \xi(t) \xi(t+\tau) dt \approx B_{T}(\tau) = \frac{1}{T} \int_{0}^{T} \xi(t) \xi(t+\tau) dt$$

where $\xi(t)$ is the rate of arrival of the signal. The correlator comprises a storage section with a capacity equal to or exceeding the number of degrees of freedom of the signal, an electronic switch, signal $\frac{1}{2}$

L 01811-66 ACCESSION NR: AP5020886 nal generator, a multiplying circuit, and an integrating (averaging) circuit. A master-pulse generator controls the correlator operation. According to the formulas and curves given in the article, the probability of false reception (noise immunity) per one degree of freedom will be under 7×10^{-3} , 1×10^{-5} , and 2×10^{-11} for 2FT = 50, 100, and 200, respectively, where F is the signal-spectrum width and T is the signal duration. In an experimental study, a cross-correlation function was produced between these two sums: 1) a square pulse, plus a first-order infinitesimal a-c component, plus a second-order infinitesimal a-c component and 2) an identical square pulse; plus a first-order infinitesimal a-c component noncorrelated to its counterpart in the first sum, plus a second-order infinitesimal a-c component correlated to its counterpart in the first sum. "In conclusion, the author wishes to thank V. V. Or100 for his help in the experimental work." Orig. art. has: 4 figures and 5 formulas. [03] ASSOCIATION: none SUB CODE : EC ENCL SUBMITTED: 190ct64 ATD PRESS: 4086 OTHER: 001 NO REF SOV

ACC NR: AT7006725

SOURCE CODE: UR/2546/66/000/158/0025/0034

AUTHOR:

Samoylov, A. I.

ORG: none

TITLE: The occlusion of cyclones

SOURCE: Moscow. Tsentral'nyy institut prognozov. Trudy. no. 158, 1966. Sinopticheskaya meteorologiya (Synoptic meteorology), 25-34

TOPIC TAGS: cyclone, atmospheric front, air temperature

ABSTRACT: The relation of occluded fronts and thermal ridges to height has been examined. Observations show that occlusion takes place only in the lower layers of the air. It was not once detected at the 850-millibar level. Thermal ridges form with development of each cyclone, whether occlusion of the cyclone takes place or not. Development of these ridges is determined by advection and rising air currents as a result of unsteady air flow. Decline in horizontal temperature gradients at the edge of the ridge and increase in gradient at the base, giving the ridge the form characteristic of occluded fronts, are caused by ascending air movement. The transfer of heat to the upper levels takes place with a velocity approaching the wind velocity. This transfer velocity is generally greater than the rate of frontal movement on the earth's surface. The thermal ridge tends to form before occlusion begins, and may be shifted forward relative to the occluded front at the earth's surface. The author

Card 1/2

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ACC NR: AT7006725

SOURCE CODE: UR/2546/66/000/158/0035/0045

AUTHOR: Samoylov, A. I.

ORG: nono

TITLE: Destruction of the thermal structure of fronts in cyclones

SOURCE: Moscow. Tsentral'nyy institut prognozov. Trudy. no. 158, 1956. Sinopticheskaya meteorologiya (Synoptic meteorology), 35-45

TOPIC TAGS: cyclone, atmospheric front, wind velocity, atmospheric pressure

ABSTRACT: On pressure charts showing the 850-, 700-, 500-, and 300-millibar levels, the positions of the warm and cold boundaries of frontal zones in cyclones have been examined in relation to the frontal line on the earth's surface, the slope of the boundaries, the change in width of the frontal zone with height, and the temperature contrast at the different pressure levels. The boundaries of the frontal zone have been taken as the isotherms beyond which the horizontal temperature gradient is half (or less) its value within the frontal zone. When the general slope of the frontal zone in the troposphere is toward the cold air, the boundary by no means everywhere slopes in this direction. Within individual layers of the troposphere each boundary will almost always be found to have slopes both toward the cold air and toward the warm air, and the cold and warm boundaries generally slope in opposite directions.

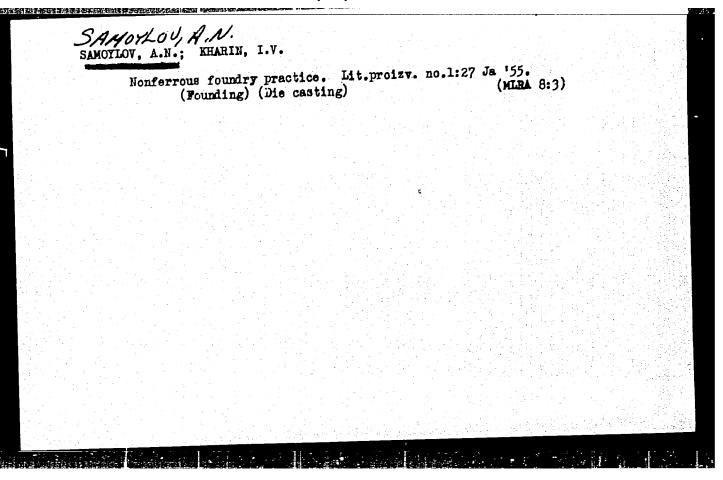
Card 1/2

Experience with non-ferrous casting. Lit.proizv. no.8:28-29 N '54. (Founding) (MLRA 8:1)		SAMOYIA	OV, A.M.; KH	ARIN, I.V.				
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REMPEL', S.I.; SAMOYLOV, A.M.

Automatic measurement and regulation of liquid levels by using radioactive tracers. TSvet. met. 29 no.7:83-84 Jl '56.
(MLRA 9:10)

(Radioactive tracers--Industrial applications)
(Autoclaves)



Gooling fins for the proizv. no.4:27 Ap	he detachable parts of a chill mold. Lit. 155. (MLRA 8:6) (Molding(Founding))	

A.N.; ANDRYUSHCHENKO, P.V. Revitalization of sunflewer varieties in the area of the Armav Revitalization of sunflewer varieties in the area of the Armav Combine. Maslzhir. prom. 24 no.12:37-38 58. (MIRA)	11:12)
l.Armavirskiy maslezavod. (Krasnodar Territory-Sunflewer)	

SAMOYLOV, A.N., inzh.; VISHNEVETSKAYA, E.I.

Economic efficiency of the ND-1250 extraction unit. Masl.-zhir.
prom. 27 no.6:39-40 Je '61.

1. Armavirskiy maslezhirevey kombinat.
(Armavir-Extraction apparatus)

an ing palengasanan kerimes EWT(d)/FSS-2 SOURCE CODE: UR/3173/63/000/008/0080/0092 L 8329-66 ACC NR: AT5028040 AUTHOR: Samoylov, A. O. (Senior lecturer) ORG: Ural Electromechanical Institute of Railroad Transportation Engineers (Ural'skiy elektromekhanicheskiy institut inzhenerov zheleznodorozhnogo transporta) TITLE: A comparison of the interference stability of a correlator and an accumulator during pulsed signal reception with a background of fluctuation interferences SOURCE: Sverdlovsk. Ural'skiy elektromekhanicheskiy institut inzhenerov zheleznodorozhnogo transporta. Trudy. no. 8, 1963. Voprosy avtomatiki, telemekhaniki i svyazi na zheleznodoroshnom transporte (Problems in automation, remote control, and communication in railroad transportation), 80-92. TOPIC TAGS: Signal correlation, signal interference, interference measurement, pulse signal ABSTRACT: The author estimates the interference stability of a correlator and compares it with the interference stability of accumulators. He discusses the correlator reception of a pulsed periodic signal, the probability of incorrect reception, and a comparative estimate of correlator and accumulator operation which shows that the correlator interference stability is (other conditions being equal) higher than the accumulator stability. The calculated Card 1/2

ACC NR: AT5028040	0
terference stability for real systems is, however, still lower than the potential reception mit indicated by the Kotel'nikov theorem. Orig. art. has: 40 formulas and 1 figure.	
UB CODE: GP, EC, MA / SUBM DATE: none / ORIG REF: 006 / OTH REF: 007	
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Card 2/2	

Pathogenesis of D 160.	l.nauk (Krivoy Rog) pyorrhea alveolaris. (GUMSDISEASES)	Vrach.	delo no. (1	12:133-134 4TRA 14:1)	
•	(GOM2NIZEWOE)				

PAP, A.G., kand. med. nauk; SAMOYLOV, A.P.

Toxoplasmosis in hemorrhages during pregnancy and labor.

Akush. i gin. 39 no.3:62-64 My-Je 63 (MIRA 17:2)

1. Iz Ukrainskogo nauchno-issledovatel skogo instituta okhrany materinstva i detstva imeni Prof. P.M. Buyko (direktor A.G. Pap).

SAMOYLOV, A.P., kand.med.nauk

Pyorrhea alveolaris and denticles. Vrach.delo supplement
'57:52-53

1. Kafedra patoanatomii (zav.-prof. I.M.Peysakhovich) Kiyevskogo
meditsinskogo stomatologicheskogo instituta.

(GUMS--DISEASES) (TEETH--DISEASES)

SAMOYlov, A.P.

USSR/Human and Animal Morphology - Digestive System

Abs Jour : Referat Zhur - Biologii, No 16, 1957, 70297

Author

Title

: Samoylov, A.P. : The Composition of the Hard Tissues of Teeth (Dentire:

and Cement) in Amphodontosis.

Orig Pub

: Vracheb. delo, 1955, No 8, 773-774

Abstract : No abstract.

Card 1/1

- 51 -

SAMOYLOV, A.P. (Kiyev)

Role of denticles in parodontitis. Stomatologia 35 no.4:58 JI-Ag (MIRA 10:4)

156

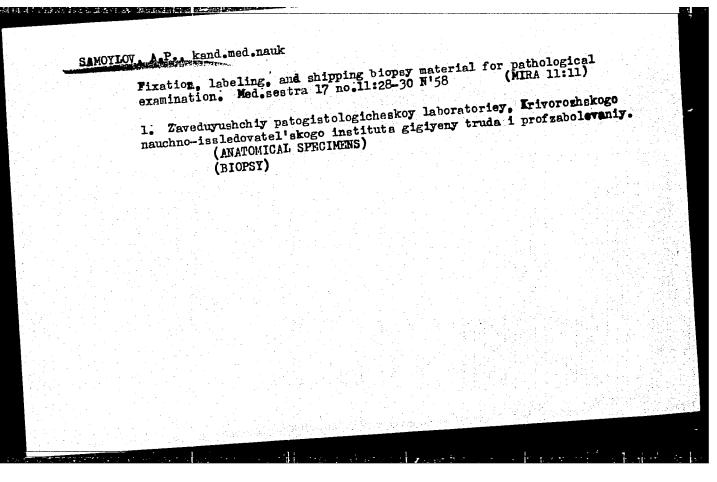
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BABOV, D.M., SAMOYLOV, A.P., SHEVCHENKO, A.M.

Conference on the problem "Silicosis and its control", devoted to the 40th anniversary of the Ukrainina S.S.R. Gig. truda i prof. zab. 2 no.6:70-71 M.D '58 (MIRA 11:12)

(LUNGS-DUST DISEASES)



SAMOYLOV, A. P. (Krivoy Rog)

Morphological changes in the lungs caused by iron ore dust.

Gig. truda i prof. zab. no.3:45-48 62. (MIRA 15:4)

1. Krivorozhskiy nauchno-issledovatel'skiy institut gigiyeny truda i profzabolevaniy.

(LUNGS-DUST DISEASES) (IRON ORES-TOXICOLOGY)

PAP, O.G. [Pap, O.H.]; SAMOYLOV, A.P. [Samoilov, A.P.]

Toxoplasmosis in obstetrical hemorrhages. Ped., akush. i gin.
24 no.l:61-63'62. (MIRA 16:8)

l. Laboratoriya toksoplazmozu ta listerel'ozu (zav. - A.P. Samoylov) Kiivs'kogo institutu okhoroni materinstva y ditinstva (direktor - O.G.Pap [Pap, O.H.]).

(TOXOPLASMOSIS) (HEMORRHAGE, URERINE)

CRADOV, G.A.; KALININA, G.F.; MODEL', A.M.; NEVRAYEV, G.A.; SAMOYLOV,
A.V.[deceased]; SVIRSKIY, V.A.; KOSITSKIY, Ya.V., kard. srkhit.,
nauchnyy red.; MANIKOV, M.Ye., kand. med. nauk, nauchnyy red.;
MOROZOVA, G.V., red.; BRUSINA, L.N., tekhn. red.

[Sanatoriums and rest homes; manual on designing] Sanatorii i doma otdykha; posobie po proektirovaniiu. Moskva, Gosstroiizdat, 1962. 23 p. (MIRA 15:7)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut obshche-

(Sanatoriums) (Labor rest homes)

SOV/120-59-1-9/50

AUTHORS: Kirillov-Ugryumov, V. G., Kotenko, L. P., Kuznetsov, Ye. P., Samoylov, A. V.

TITLE: Determination of the Masses and Momenta of Charged Particles from Multiple Scattering in a Propane Bubble Chamber.

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 1, pp 44-47 and 1 plate (USSR)

ABSTRACT: 246 photographs of particle tracks which came to rest in the bubble chamber (Ref.2) were examined. The tracks were analyzed by measuring the multiple scattering by the chord method suggested by Goldschmidt-Clermont et al (Ref.1). To determine the masses the formula given by Olbert et al (Ref. 1) was employed. The following results were obtained:

m = (268 ± 23) m_e t = 2 cm 312 angles m = (263 ± 37) m_e t = 1 cm 132 angles m_{\mu} = (196 ± 25) m_e t = 1 cm 132 angles m_{\mu} = (1975 ± 184) m_e t = 2 cm 288 angles

To determine the momenta Olbert's formulae were used (Ref.1) Card 1/2

SOV/120-59-1-9/50

Determination of the Masses and Momenta of Charged Particles from Multiple Scattering in a Propane Bubble Chamber

and it was shown that in order to determine the momenta of mesons to 15% at 100 Mev, 25 cm of track in propane is sufficient, while for 200 Mev protons the track length is 50 cm. There are 4 tables, 2 figures and 4 references, of which 2 are Soviet and 2 English.

ASSOCIATION: Fizicheskiy institut AN SSSR (Physics Institute, Academy of Sciences USSR)

SUBMITTED: February 12, 1958.

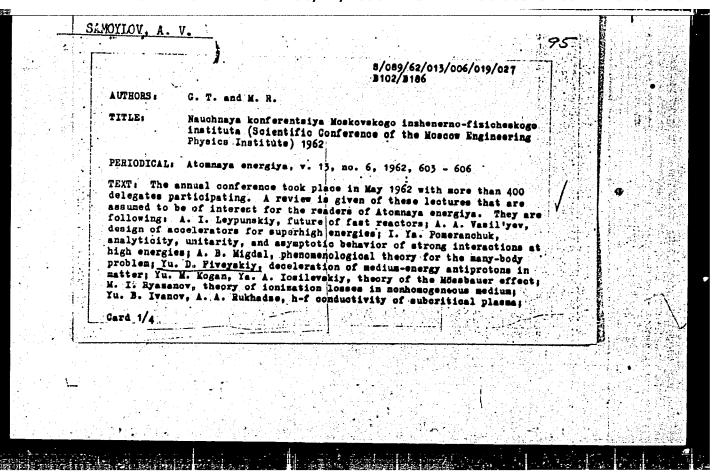
Card 2/2

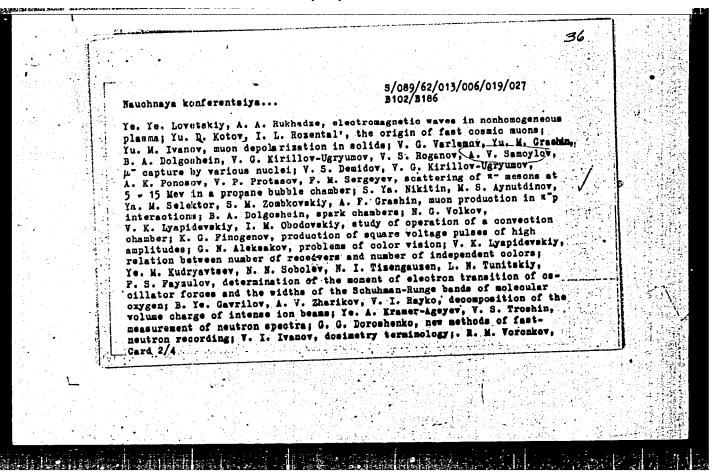
ALIKHANYAN, A.I.; KIRILLOV-UGRYUMOV, V.G.; KOTENKO, L.P.; KUZNETSOV, Ye.P.; SAMOYLOV, A.V.

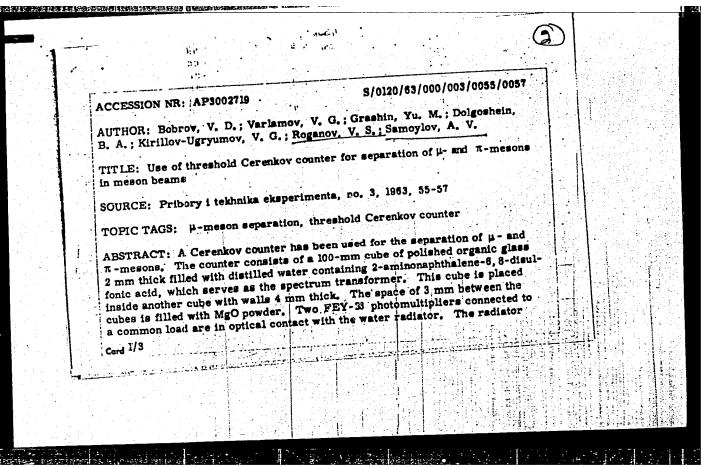
Single scattering of 10 to 30 Mev. A -mesons on carbon. Zhmr.eksp.i teorffiz. 38 no.2:387-393 F '60. (MIRA 14:5)

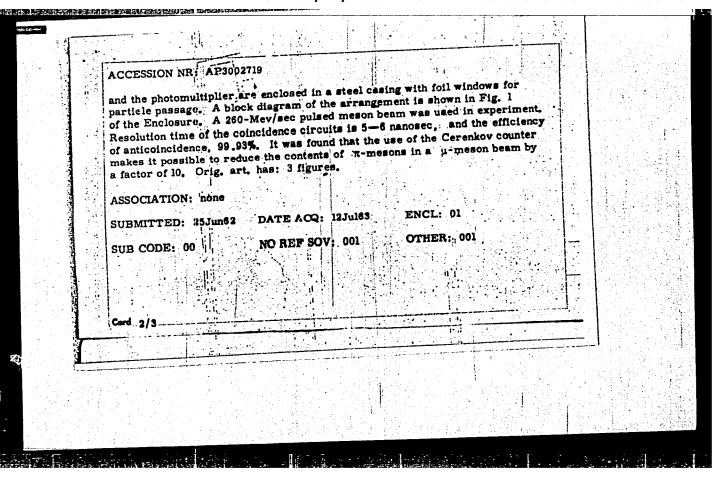
1. Fizicheskiy institut im. P.N.Lebedeva Akademii nauk SSSR. (Mesons—Scattering)

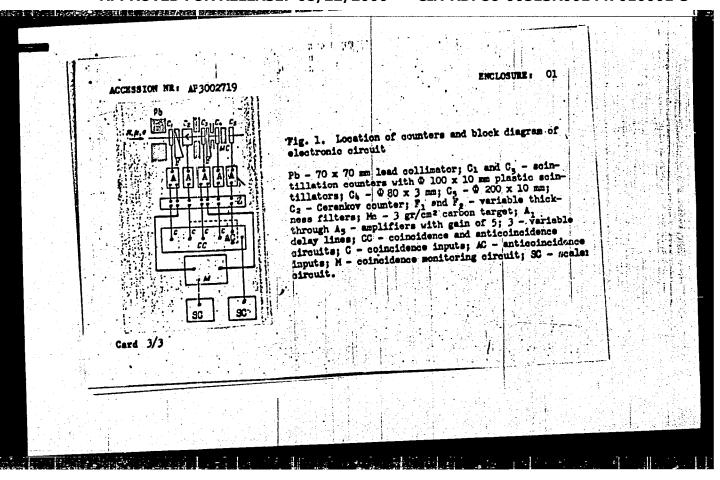
Angular and energy dispersion of \$\infty\$-mesons in a scattered magn field of a six-meter synchrocyclotron. Atom. energ. 11 no.3: 245-246 S '61. (MIRA (MesonsScattering) (Synchrotron) (Magnetic Fields)	
of a six-meter synchrocyclotron. Atom. energ. 11 no.3: S '61. (MIRA	(M _e
chrocyclotron. Atom. energ. 11 no.3: (MIRA	esons—Scattering)
Atom. energ. 11 no.3: (MIRA	(Synchrotron)











Pg-4/Pk-4/Po-4/Pq-4 EWT(d)/BDS ASD/ESD-3/APGC L 14984-63 IJP(C) 8/0120/63/000/004/0063/0066 ACCESSION NR: AP3004891 AUTHOR: Varlamov, V. G.; Grashin, Yu. M.; Dolgoshein, B. A.; Samoylov, TITIE: Multichannel coincidence-anticoincidence circuit 160 SOURCE: Pribory* i tekhnika eksperimenta, no. 4, 1963, 63-66 TOPIC TAGS: multichannel coincidence-anticoincidence circuit, coincidence-anticoincidence circuit, scintillation counter, particle recording efficiency, coincidence-circuit deed time, coincidence-pulse rise time ABSTRACT: The coincidence-anticoincidence circuit shown in Fig. 1 of Enclosure has four coincidence and two anticoincidence channe; s. The coincidence circuits are switched on by corresponding tumblers. The input pulses are negative with an amplitude of 2 v or higher. The plate current of each coincidence tube (L1 to I.4) is 20 μamp. The current flowing along the separating diode D, is 15 μamp. The voltage of D, is 0.5 v with one open tube and 0.7 v with four open tubes; consequently, with incomplete coincidence the maximum pulse emplitude for D, is 0.2 v. The coincidence pulses separated at D; are amplified by the wide-band stage of tube L5. Diode D5 discriminates the incomplete coincidences, which then have an amplitude of 1 v or higher. Discrimination reduces the current of L6 by Card 1/32

L 14984-63 ACCESSION NR: AP3004891 approximately 70 to 80%. Four scintillation counters whose scintillators were 100 mm in dismeter and 10 mm thick were used to test the circuit. FEU-3 photomultipliers were in optical contact with the counters, the signals of each of which were shaped and amplified by a wide-band two-stage amplifier. Experimental results show that the following: 1) at a time resolution of 5 to 8 nanosec, the efficiency of particle recording in four-cycle coincidences is not lower than 99%; 2) the efficiency of particle anticoincidence recording is 99.95 +0.01%; 3) coincidence circuit dead time is about 30 nanosec; and 4) output-pulse rise time of the coincidence circuit is less than 10 nanosec. Orig. art. has: 5 ASSOCIATION: Fizicheskiy institut AN SSSR (Physics Institute, AN SSSR) ENCL: 01 DATE ACQ: 28Aug63 SUBMITTED: 00 OTHER: COL NO REF SOV: OCO SUB CODE: GE, SD Card 2/3:2

Electrostriction devices for producing minor mechan displacements. Avtom. 1 prib. no.4:81-84 0-D '63.	•	16:12)	
1. Kiyevskiy politekhnicheskiy institut.			

SAMOYLOV, A.V., inch.

Prevention of wire damage in simultaneous drawing and annealing.

Energ. i elektrotekh. prom. no.2:58-59 Ap-Je '64. (MIRA 17:10)

MISHCHENKO, M.I.; KOVAL'CHUK, V.A.; SAMOYLOV, A.V.; YEZHOVA, T.I. [IEzhova, T.I.]

Apparatus for studying the movements of polymers and heat transfer in screw presses. Khim.prom.[Ukr.] no.1:33-35 Ja-Mr '65. (MIRA 18:4)

Program Green Market manager - Alternation and Market Mark	
1. 36951-66 EWT(m)/T/EWP(j) IJP(c) RM/WW SOURCE CODE: UR/3162/65/000/002/0177/0179]
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ACC NR: AT6017660 (A) SOURCE CODE: UR/3162/03/000/002/00/002/002/002/002/002/002/	
ORG: none / TITLE: Instrument for measuring the thermophysical characteristics of polymers in a	
wide temperature range	
SOURCE: Ukraine. Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya. Khimi- cheskoye mashinostroyeniye, no. 2, 1965. Protsessy, mashiny, apparaty i avtomatizatsiya khimicheskikh proizvodstv (Processes, machines, apparatus and automation of chemical plants), 177-179	
TOPIC TAGS: measuring device, heat source / PE-500 polyethylene	
ABSTRACT: The device (designed by the authors) was used to measure the thermophysical characteristics of PE-500 polyethylene in the temperature range 20-160°C. The device	r-
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